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CLAIMS

1. A radiator comprising a substrate, an amorphous carbon layer and a metallic carbide-forming layer interposed between the substrate and amorphous carbon layer.
- 5 2. The radiator of claim 1, wherein the metallic carbide-forming layer comprises titanium.
3. The radiator of claim 1 or claim 2, wherein the amorphous carbon layer and/or the titanium layer has a thickness in the range of 0.1 micrometres to 1.0 micrometres.
- 10 4. The radiator of any preceding claim, wherein the amorphous carbon layer is protected by a protective layer.
- 15 5. The radiator of claim 4, wherein the protective layer is substantially transparent to infrared radiation.
6. The radiator of claim 5, wherein the protective layer comprises at least one of SiC, SiO₂, diamond and diamond-like carbon.
- 20 7. A method of making a radiator comprising the steps of forming a metallic carbide-forming layer on a substrate and forming an amorphous carbon layer on the metallic carbide-forming layer.
- 25 8. The method of claim 7, wherein the amorphous carbon layer and/or the metallic carbide forming layer is formed by sputter deposition or evaporation.

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9. The method of claim 7 or 8, further comprising the step of forming a protective layer on top of the amorphous carbon layer.
- 5 10. The method of any of claims 7 to 9, wherein the radiator is annealed after the steps of forming the metallic carbide-forming and amorphous carbon layers.
- 10 11. A radiator substantially as herein described with reference to the accompanying drawings.
12. A method of making a radiator substantially as herein described with reference to the accompanying drawings.